



V-15-05

PATENT  
674310-2430.1

IPW

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : PAOLETTI et al  
Serial No. : 08/228,926  
Filing Date : May 4, 1992  
For : MODIFIED VACCINIA VIRUS AND METHODS FOR  
MAKING AND USING THE SAME  
Examiner : Mary Mosher  
Art Unit : 1648  
Confirmation No.: 4171

745 Fifth Avenue New York, NY 10151

EXPRESS MAILMailing Label Number: EV713834991US and EV713835025USDate of Deposit: November 14, 2005

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(Typed or printed name of person mailing paper or fee)  
(Signature of person mailing paper or fee)SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

The Examiner's attention is respectfully drawn to the enclosed documents listed on the accompanying PTO Form 1449. Pursuant to 37 CFR §1.97(b)(3), Applicants request the Examiner to consider this Information Disclosure Statement, and to make of record the documents cited on the accompanying PTO form 1449 and that a copy of Form PTO-1449 be initialed by the Examiner and returned to the undersigned.

Also attached is a copy of the non-patent documents and foreign patents cited in the PTO form 1449. The references are being mailed via US Express Mail in two boxes as they were too numerous to send in one box. A complete copy of the Information Disclosure Statement and PTO form 1449 accompanies both boxes of references. In addition, the certificate of mailing for the Information Disclosure Statement lists the US Express Mail Airbill Tracking Number for both boxes.

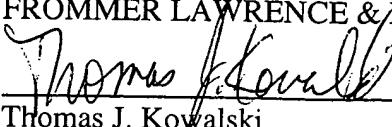
Furthermore, the table below informs the Examiner of the counterpart applications or patents for US Application 08/228,926. The Examiner is invited to obtain a copy of the counterpart applications and patents as necessary. The counterpart applications and patents are:

Country	Application No. (Publication No.)	Title
Australia	AU1982000091806 (AU9180682A1)	Vaccinia Virus Incorporating Foreign DNA
Australia	AU1982000091806 (AU0561816B2)	Vaccinia Virus Incorporating Foreign DNA
Austria	AT1982000402380 (AT0050791E)	Modifiziertes Vaccinia Virus Und Verfahren Zu Dessen Herstellung Und Verwendung.
Denmark	DK1982000005724 (DK0572482A)	Modificeret Vaccinia-Virus Og Fremgangsmaade Til Dens Fremstilling Og Anvendelse
Denmark	(DK1982000005724 ) DK0173927B1	Vaccine Til Anvendelse Til Vaccinering Af Pattedyr Omfattende Rekombinant Kokoppevirus
Europe	EP1982000402380 (EP0083286B2)	Modified Vaccinia Virus And Methods For Making And Using The Same
Europe	EP1982000402380 (EP0083286B1)	Modified Vaccinia Virus And Methods For Making And Using The Same
Europe	EP1982000402380 (EP0083286A3)	Modified Vaccinia Virus And Methods For Making And Using The Same
Europe	EP1982000402380 (EP0083286A2)	Modified Vaccinia Virus And Methods For Making And Using The Same
Germany	EP1982000402380 (DE3280128C0)	Modifiziertes Vaccinia Virus Und Verfahren Zu Dessen Herstellung Und

Country	Application No. (Publication No.)	Title
		Verwendung.
Israel	IL1982000067537 (IL0067537A0)	Modified Vaccinia Virus And Methods For Making And Employing The Same
Italy	IT1982000024948 (IT8224948A0)	Virus Vaccinico Modificato E Metodi Per La Produzione Ed Uso Del Medesimo
Italy	IT1982000024948 (IT1191150A)	Virus Vaccinico Modificato E Metodi Per La Produzione Ed Uso Del Medesimo
Japan	JP1982000234860 (JP58129971A2)	Variant Vactinia Virus, Production And Use Thereof
Japan	JP1982000234860 (JP06071429B4)	<i>Not Available</i>
New Zealand	NZ1982000202833 (NZ0202833A)	Modified Vaccinia Virus: Use As Transfer Vector In Genetic Engineering Technique
Philippines	PH1982000028314 (PH0022658A)	Modified Vaccinia Virus And Method Of Using The Same
South Africa	ZA1982000009386 (ZA8209386A)	Modified Vaccinia Virus And Methods For Making And Using The Same
Switzerland	CH1992000002364 (CH0683921A)	Vaccin A Poxvirus Recombinant Contre Le Virus De La Rougeole. .
United States	US1982000446824 (US4603112)	Modified Vaccinia Virus

The filing of this Information Disclosure Statement is not an admission that the documents identified herein constitute prior art to the present application.

It is believed that no fees are required by the instant submission. However, if any fees are required, or if any overpayment has been made, please charge Deposit Acct. No. 50-0320.

Respectfully submitted,  
 FROMMER LAWRENCE & HAUG LLP  
 By:   
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 Telephone: (212) 588-0800  
 Facsimile: (212) 588-0500

Based on Form PTO-1449

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I A P T 12  
P A T E N T S / T R A D E M A R K O F F I C E

LIST OF REFERENCES CITED BY APPLICANT  
(Use several sheets if necessary)

ATTY. DOCKET NO.  
**674310-2430.1**SERIAL NO.  
**08/228,926**APPLICANT  
**Paoletti et al**FILING DATE  
**May 4, 1992**GROUP  
**1813**

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	4088748					
	AB	4113712					
	AC	4129646					
	AD	4138287					
	AE	4162192					
	AF	4237224					
	AG	4322499					
	AH	4399216					
	AI	4603112					
	AJ	4663281					
	AK	4710463					
	AL	4722848					
	AM	4736866					
	AN	4738846					
	AO	4769330					
	AP	5110587					
	AQ	5155020					
	AR	5174993					
	AS	5204243					
	AT	5225336					
	AU	5244792					
	AV	5338683					
	AW	5364773					
	AX	5378457					
	AY	5453364					
	AZ	5482713					
	BA	5494807					
	BB	5503834					
	BC	5505941					

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	BD	5514375					
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	BF	5580859					
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	BI	5641490					
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	BZ	5858373					
	CA	5863542					
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	CF	5990091					
	CG	5997878					
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	CO	6267965					
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	CQ	6340462					
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	CT	6596279					
	CU	6605465					
	CV	6632438					
	CW	6780407					

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	CX	2222165		United Kingdom				
	CY	624863		Australia				
	CZ	78906/87		Australia				
	DA	0052002		Europe				
	DB	0162757		Europe				

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

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	DC	0216564		Europe				
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	DE	0261940		Europe				
	DF	0262043		Europe				
	DG	0284416		Europe				
	DH	0314569		Europe				
	DI	0324350		Europe				
	DJ	0344804		Europe				
	DK	0352851		Europe				
	DL	0397560		Europe				
	DM	0330781		Europe				
	DN	0/12101		WIPO				
	DO	88/02022		WIPO				
	DP	86/65806		WIPO				
	DQ	88/02027		WIPO				
	DR	89/03879		WIPO				
	DS	89/07644		WIPO				
	DT	89/08716		WIPO				
	DU	89/12684		WIPO				
	DV	8912103		WIPO				
	DW	90/02190		WIPO				
	DX	90/10693		WIPO				
	DY	9208789		WIPO				
		0353851		Europe				
	DZ	9215672		WIPO				
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EB	Adams, J. M., and D. T. Imagawa, Proc. Soc. Exper. Biol. Med. 96, 240-244 (1957).
EC	Ahn, B-Y. and Moss, B. 1992. RNA polymerase-associated transcription specificity factor encoded by vaccinia virus. Proc. Natl. Acad. Sci. 89: 3536-3540.
ED	Alexander, D. J. In Diseases of Poultry, 9th edition, eds. B. W. Calnek, H. J. Barnes, C. W. Beard, W. M. Reid and H. W. Yoder, Jr., (Iowa State University Press, Ames, Iowa, USA) pp. 496-519 (1991).
EE	Alkhaitib and Briedis, (1986) Virology, vol. 150, pp. 479-490.
EF	Alkhaitib, G., C. Richardson, and S-H. Shen, Virology 175, 262-270 (1990).
EG	Allan, W.H., J.T. Faragher, and G.A. Cullen, Vet. Rec. 90, 511-512 (1972).
EH	Allen , P. and Rapp, F., J. Infect. Dis. 145, 413-421 (1982).
EI	Allen, G.P. and J.T. Bryans, In: Progress in Veterinary Microbiology and Immunology, vol. 2, ed. R. Pandey (Basel), pp. 78-144 (1986).
EJ	Almoguera et al., (1988) Cell, vol. 53, pp. 549-554.
EK	Alp, N. J., T. D. Allport, J. Van Zanken, B. Rodgers, J. G. P. Sissons, and L. K. Borysiewicz, J. Virol. 65, 4812-4820.
EL	Altenburger, W., C-P. Suter and J. Altenburger, Archives Virol. 105, 15-27 (1989).
EM	Andrewes et al. (1978) Viruses of Vertebrates. Cassell & Co. Ltd, p. 374.
EN	Appel, M. J. G., and D. S. Robson, Am. J. Vet. Res. 34, 1459-1463 (1973).
EO	Appel, M.J.G. and O.R. Jones, Proc. Soc. Exp. Biol. and Med. 126, 571-574 (1967).
EP	Arikawa, J., Schmaljohn, A.L., Dalrymple, J.M., and Schmaljohn, D.C., J. Gen. Virology 70, 615-624 (1989).
EQ	Asada et al., (1987) J. Gen. Virol., vol. 68, pp. 1961-1969.
ER	Asada et al., (1988) J. Gen. Virol., vol. 69, pp. 2179-2188.
ES	Asher, A.L., Mule, J.J., Reichert, C.M., et al., J. Immunol. 138, 963-974 (1987).
ET	Autran, B., Plata, F., and Debre, P., J. AIDS 4, 361-367 (1991).
EU	Avery and Niven, (1979) Infect. and Immun., vol. 26, pp. 795-801.
EV	Aviv, H., and Leder, P., Proc. Natl. Acad. Sci. USA 69, 1408-1412 (1972).
EW	Azad et al Vaccines 90 pp. 59-62 (1990) Cold Spring Harbor Laboratory Press, CSH, NY.
EX	Azad, A.A., K.J. Fahey, S. Barrett, K. Erny and P. Hudson, Virology 149, 190-198 (1986).
EY	Azad, A.A., M.N. Jagadish, M.A. Brown, and P. Hudson, Virology 161, 145-152 (1987).
EZ	Babinet et al (1985) science 230, 1160-1163.
FA	Babiuk, L.A., J. L'Italien, S. van Drunen Littel-van den Hurk, T. Zamb, M.J.P. Lawman, G. Hughes, and G.A. Gifford, J. Virol. 159, 57-66 (1987)
FB	Baer, R., A.T. Bankier, M.D. Biggin, P.L. Deininger, P.J. Farrell, T.J. Gibson, G. Hatfull, G.S. Hudson, S.C. Satchwell, C. Seguin, P.S. Tuffnell, and B.G. Barrell, Nature 310, 207-211 (1984).
FC	Baker, J. A., B. E. Sheffy, D. S. Robson, J. Gilmartin, Cornell Vet (USA) 56, 588-594 (1966).
FD	Balachandran et al., (1982) Infec. Immun., vol. 37, pp. 1132-1137.
FE	Ballay, A. et al 1985. The EMBO Journal vol. 4 pp. 3861-3865.

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FG	Baroudy, B. M., Venkatesan, S., and B. Moss, Cell 28, 315-324 (1982).
FF	Baumann, R.P., D.C. Sulivan, J. Staczek, and D.J. O'Callaghan, J. virol. 57, 816-825 (1986).
FH	Baxby, D. In Jenner's Smallpox Vaccine, (Heinemann Educational Books, Ltd., London) pp. 214 (1981).
FI	Baxby, D., Paoletti, E., Vaccine 10, 8-9 (1992).
FJ	Baxendale, W. and Lutticken, Dev. Biol. Stand. 51, 211-219 (1981).
FK	Bayliss et al., Arch. Virol. 120: 193-205 (1991).
FL	Beard et al., (1984) In: Diseases of Poultry, 8th Edition, eds. M.S. Hofstad, pp. 452-470.
FM	Beard, (1979) Avian Diseases, vol. 23, pp. 327-334.
FN	Beattie et al. Journal of Virology, vol. 69, No. 1, Jan. 1995, pp. 499-505.
FO	Becht, H., H. Muller, and H.K. Muller, J. Gen Virol. 69, 631-640 (1988).
FP	Beisel, C., J. Tanner, T. Matsuo, D. Thorley-Lawson, F. Kezdy, and E. Kieff, J. Virol. 54, 665-674 (1985).
FQ	Ben-Porat and Kaplan, (1970) Virology, vol. 41, pp. 265-273.
FR	Ben-Porat and Kaplan, (1985) In: Herrepviruses, vol. 3, pp. 105-173.
FS	Ben-Porat et al., (1979) Virology, vol. 95, pp. 295-294.
FT	Ben-Porat et al., (1986) J. Virol., vol. 57, pp. 191-196.
FU	Ben-Porat, (1982) In: Organization and Replication of Viral DNA, ed. A.S. Kaplan, pp. 147-172.
FV	Bergoin and Dales, (1971) In: Comparative Virology, eds. K. Maramorsch and Kurstak, pp. 169-205.
FW	Berman et al., 1990, Nature 345:622-625.
FX	Berman, P. W., D. Dowbenko, L. A. Lasky, and C. C. Simonsen, Science 222, 524-527 (1983).
FY	Bernards, R., Destree, A., McKenzie, S., Gordon, E., Weinberg, R.A., and Panicali, D., PNAS USA 84, 6854-6858 (1987).
FY	Berns et al., (1990) In: Fields Virology, eds. Fields and Knipe, pp. 1743-1763.
GA	Bertholet et al., (1985) Proc. Natl. Acad. Sci., vol. 82, pp. 2096-2100.
GB	Bestetti, G., . Fatzer, and R. Frankhauser, Acta Neuropathol. 43, 69-75 (1978).
GC	Beveridge, W. I. B. and L. Hart (1985) Animal Health in Australia, vol. 7, p. 58.
GD	Biggin, M., P.J. Farrell, and B.G Barrell, Embo. J. 3, 1083-1090 (1984).
GE	Binns et al (1986) Isr. J. Vet. Med. 42, 124-127.
GF	Bishop et al., (1990) In: Bunyaviridae and Their Replication in Virology, 2.sup.nd Edition, pp. 1155-1173
GG	Black, F. L., L. L. Berman, M. Libel, C. A. Reichelt, F. de P. Pinheiro, A. T. da Rosa, F. Figuera, and E. S. Gonzales, Bull, W.H.O. 62, 315-319 (1984).
GH	Bolvier et al. (1979) Gene 2, 95-113.
GI	Borysiewcz, L.K., J.K. Hickling, S. Graham, J. Sinclair, M.P. Crange, G.L. Smith and F.G. Sissons, J. Exp. Med. 168, 919-931 (1988).
GJ	Boursnell et al. (1984) Virus Res. 1, 303-313.

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GK	Boursnell et al., (1990a) J. Gen. Virol., vol. vol. 71, pp. 621-628.
GL	Boursnell et al., (1990c) Virology, vol. 178, pp. 297-300.
GM	Boyle et al. (1986) J. Gen. Virol. 67, 1591-1600.
GN	Boyle et al. (1988) Virus Research, vol. 10 pp. 343-356.
GO	Boyle et al., (1988) Gene, vol. 65, pp. 123-128.
GP	Bray, M., Zhao, B., Markoff, L., Eckels, K. H., Chanock, R. M., and Lai, C.-J., J. Virol. 63, 2853-2856 (1989).
GQ	Brown, F., Intervirology 25, 141-143 (1986).
GR	Brunda et al., (1993) J. Exp. Med., vol. 178, pp. 1223-1230.
GS	Bruner, D. W. (1963) The pox diseases of man and animals. In: Diseases Transmitted from Animals to Man, (ed. Hull, T. G.), Charles C. Thomas, Publisher p. 394.
GT	Bryson et al., (1983) N. Engl. J. Med., vol. 308, pp. 916-921.
GU	Bryson, Y., Dillon, M., Lovett, M., Acuna, G., Taylor, S., Cherry, J., Johnson, B., Wiesmeier, E., Growdon, W., Creagh-Kirk, T. and Keeney, R., N. Engl. J. Med. 308, 916-921 (1983).
GV	Bucher et al., (1989) J. Virol., vol. 63, pp. 3622-3633.
GW	Buller et al., 1985, Nature, vol. 317, pp. 813-815.
GX	Buller et al., (1988) J. Virol., vol. 62, pp. 866-874.
GY	Buller et al., (1991) J. Microbiol. Rev., vol. 55, pp. 80-122.
GZ	Burkhardt, E. and H. Muller, Archives of Virology 94, 297-303 (1987).
HA	Bush, M., R. J. Montali, D. Brownstein, A. E. James, Jr., and M. J. G. Appel, J. Am. Vet. Med. Assoc. 169, 959-960 (1976).
HB	Buxton, A. (1977) Animal Microbiology. Blackwell Scientific Publications, p. 693.
HC	Bzik et al., (1988) J. Molec. Biochem. Parasitol., vol. 30, pp. 279-288.
HD	Bzik, D. J. et al. 1984. Virology, vol. 133, pp. 301-314.
HE	Bzik, D. J. et al. 1984. Virology, vol. 133, pp. 301-314.
HF	Bzik, D.J., C. Debroy, B.A. Fox, N.E. Pederson, and S. Person, Virology 155, 322-333 (1986).
HG	Cadotz et al., 1992, Lancet 339(8807):1429-1432.
HI	Cai, W., B. Gu, and S. Person, J. Virol. 62, 2596-2604 (1988).
HJ	Calnek, B.W. and R.L. Witter, In Diseases of Poultry 9th Edition, eds. B.W. Calnek, H.J. Barnes, C.W. Beard, W.M. Reid and H.W. Yoder, Jr. (Iowa State University Press, Ames, Iowa, USA) pp. 342-385 (1991).
HK	Calnek, B.W., K.A. Schat, E.D. Heller, and C. Buscaglia, In Proc Int Symp Marek's Dis, ed. B.W. Calnek and J.L. Spencer (Am. Assoc. Avian Pathol, Kennett Square, PA) pp. 173-187 (1985).
HL	Calnek, B.W., K.A. Schat, L.J.N. Ross, W.R. Shek, and C.-L.H. Chen, Int. J. Cancer 33, 389-398 (1984).
HM	Campione-Piccardo et al. (1979) J. Virol. 31, 281-287.
HN	Cane, P.A., and Gould, E.A., J. Gen. Virol. 70, 557-564 (1989).
HO	Cantin E., Eberle, R., Baldrick, J., Moss, B., Willey, D., Notkins, A. and Openshaw, H., Proc. Natl. Acad. Sci. USA, 84, 5908-5912 (1987).
HP	Carpenter, J. W., M. J. G. Appel, R. C. Erickson, and M. N. Novilla, J. Am. Vet. Med. Assoc. 169, 961-964 (1976).

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	HQ	Carroll, K., Elroy Stein, O., Moss, B. and Jagus, R. 1993. Recombinant vaccinia virus K3L gene product prevents activation of double-stranded RNA-dependent, initiation factor 2 alpha-specific protein kinase. <i>J. Biol. Chem.</i> 268: 12837-12842.
	HR	Casadaban, M.J., A. Martinez-Arias, S.K. Shapira, and J. Chow, <i>Methods in Enzymology</i> 100, 293-308 (1983).
	HS	Cassel et al., (1983) <i>Cancer</i> , vol. 52, pp. 856-860.
	HT	Chakrabarti et al., (1985) <i>Mol. Cell. Biol.</i> , vol. 5, pp. 3403-3409.
	HU	Chakrabarti et al., (1986) <i>Nature</i> , vol. 320, pp. 535-537.
	HV	Chambers et al., (1986) <i>J. Gen. Virol.</i> , vol. 67, pp. 2685-2694.
	HW	Chambers et al., (1988) <i>Virology</i> , vol. 167, pp. 414-421.
	HX	Chambers et al., (1990) <i>Ann. Rev. Microbiol.</i> , vol. 44, pp. 649-688.
	HY	Chan, (1983) <i>Immunol.</i> , vol. 49, pp. 343-352.
	HZ	Chang, H-W., Watson, J. and Jacobs, B. L. 1992. The vaccinia virus E3L gene encodes a double-stranded RNA-binding protein with inhibitory activity for the interferon-induced protein kinase. <i>Proc. Natl. Acad. Sci. USA</i> 89: 4825-4829.
	IA	Chang, S.P., Hui, G.S.N. Kato, A., Siddiqui, W.A., <i>Proc. Natl. Acad. Sci. USA</i> 86, 6343-6347 (1989).
	IB	Chang, S.P., Kramer, K.J., Yamaga, K.M., Kato, A., Case, S.E., Siddiqui, W.A., <i>Exp. Para.</i> 67, 1-11 (1988).
	IC	Chappuis, G., C. Benoit-Jeanin, and D. Fargeaud, In: <i>Develop. biol. Standard.</i> , vol. 52, eds. M. Bonneau, and W. Hennessey, (S. Karger, Basel) pp. 485-491 (1982).
	ID	Charles et al., (1991) <i>Infect. Immun.</i> , vol. 59, pp. 1627-1632.
	IE	Chem. Abstracts, 10th Coll. Index, (1977-1981), vols. 86-95, Virus, Animal Vaccinia Virus.
	IF	Chen et al., (1971) <i>J. Gen. Virol.</i> , vol. 11, pp. 53-58.
	IG	Chen et al., (1992) <i>Cell</i> , vol. 71, pp. 1093-1102.
	IH	Cheng et al., (1986) <i>J. Virol.</i> , vol. 60, pp. 337-344.
	II	Cheung, A., Leban, J., Shaw, A.R., Merkli, B., Stocker, J., Chizzolini, C., Sander, C., Perrin, L.H., <i>Proc. Natl. Acad. Sci. USA</i> , 83, 8328-8332 (1986).
	IJ	Child et al., (1990) <i>Virology</i> , vol. 174, pp. 625-629.
	IK	Chirgwin, J. M., Przybyla, A. E., MacDonald, R. J., and Rutter, W. J., <i>Biochemistry</i> 18, 5294-5299 (1979).
	IL	Chisari et al., (1986) <i>J. Virol.</i> , vol. 60, pp. 880-887.
	IM	Choi et al. (1991) <i>J. Virol.</i> 65, 2875-2883.
	IN	Choppin, P. W., C. D. Richardson, D. C. Merz, W. W. Hall, and A. Scheid, <i>J. Infect. Dis.</i> 143, 352-363 (1981).
	IO	Cianciolo, G. J., Copeland T. D., Oroszlan S., Snyderman, R., <i>Science</i> 230, 453-45 (1985).
	IP	Clark D. H., and Casals J. Am., <i>J. Trop. Med. Hyg.</i> 7, 561-573 (1958).
	IQ	Clark et al., (1991) <i>JAVMA</i> , vol. 199, pp. 1433-1442.
	IR	Clewell and Helinski, (1969) <i>Proc. Natl. Acad. Sci.</i> , vol. 62, pp. 1159-1166.
	IS	Clewell, (1972) <i>J. Bacteriol.</i> , vol. 110, pp. 667-676.
	IT	Coccia et al., (1990) <i>J. Virology</i> , vol. 179, pp. 228-233.
	IV	Colinas et al., (1990) <i>Virus Research</i> , vol. 18, pp. 49-70.

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IW	Collett et al., (1987) In: <i>The Biology of Negative Strand Viruses</i> , pp. 321-329.
IX	Collins P. L., Purcell R. H., London W. T. et al., <i>Vaccine</i> 8, 154-168 (1990).
IY	Comparative Diagnosis of Viral Diseasees, vol. III, Ch. 6, p. 227, Academic Press, New York, 1981.
IX	Comprehensive Virology, Fraenkel-Conrad et al., vol. 3, Ch. 5, pp. 405, 427, Plenum Press, New York.
JA	Cooney E. L., Corrier A. C., Greenberg P. D., et al., <i>Lancet</i> 337, 567-572 (1991).
JB	Coulie et al., (1993) In: <i>Specific Immunotherapy of Cancer with Vaccines</i> , eds. Bystryn et al., pp. 113-119.
JC	Cox et al., (1977) <i>Infect. Immun.</i> , vol. 16, pp. 754-759.
JD	Dales et al., (1990) <i>Ann. Rev. Microbiol.</i> , vol. 44, pp. 173-192.
JE	Dalrymple, J. M. (1989) Vaccinia-vectored vaccines for exotic disease immunization programmes. In: <i>Vaccinia-vectored Vaccines-Risks and Benefits</i> , (ed. F. A. Murphy), 2nd Forum in Virology, Institut Pasteur, Elsevier, p. 479.
JF	Dantas et al., (1986) <i>Virology</i> , vol. 151, pp. 379-384.
JG	Database Derwent Biotechnology Abstracts, DBA Accession no. 89-03297, patent WO 880817, abstract only (Dec. 15, 1988).
JH	Davidoff et al., (1991) <i>Cancer Res.</i> , vol. 51, pp. 2605-2610.
JI	Davidoff, A.M., J.D. Iglehart, and J.R. Marks, <i>PNAS USA</i> 89, 3439-3442 (1992).
JK	Davies et al., (1979) <i>J. Infect. Dis.</i> , vol. 140, pp. 534-540.
JL	Davies et al., (1989) <i>Proc. Natl. Acad. Sci.</i> , vol. 86, pp. 9163-9167.
JM	Davies et al., (1992) <i>J. Virology</i> , vol. 66, pp. 1943-1950.
JN	Delpyroux et al., (1988) <i>J. Virol.</i> , vol. 62, pp. 1836-1839.
O	DeLuca, N. et al. 1982. <i>Virology</i> , vol. 122, pp. 422-423.
JP	DeNoronaha, F., Schafer, W., and Essex, M., <i>Virology</i> 85, 617-621 (1978).
JQ	Diallo et al., (1990) <i>Vet. Micro.</i> , vol. 23, pp. 155-163.
JR	Douglas et al., (1984) <i>N. Engl. J. Med.</i> , vol. 310, pp. 1551-1556.
JS	Dowbenko and Lasky, (1984) <i>J. Virol.</i> , vol. 52, pp. 154-163.
JT	Downie et al. (1956) <i>Ann. Rev. Microbiol.</i> 10, 237-252.\
JU	Dratewka-Kos et al., (1984) <i>J. Biochem.</i> , vol. 23, pp. 6184-6190.
JV	Dreyfuss et al., (1984) <i>Mol. Cell. Biol.</i> , vol. 4, pp. 415-423.
JW	Drillien et al., (1978) <i>J. Virol.</i> , vol. 28, pp. 843-850.
JX	Drillien et al., (1981) <i>Virology</i> , vol. 111, pp. 488-499.
JY	Drillien et al., (1988) <i>Proc. Natl. Acad. Sci.</i> , vol. 85, pp. 1252-1256.
JZ	Edbauer et al., (1990) <i>Virology</i> , vol. 179, pp. 901-904.
KA	Eisel et al., (1986) <i>H. EMBO J.</i> , vol. 5, pp. 2495-2502.
KB	Elder et al., (1983) <i>J. Virol.</i> , vol. 46, pp. 871-880.

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KC	Elder et al., (1987) J. Virol., vol. 61, pp. 8-15.
KD	Elliot et al., (1991) Gen. Virol., vol. 72, pp. 1762-1779.
KE	Engelke et al., (1988) Proc. Natl. Acad. Sci., vol. 85, pp. 544-548.
KF	Ensinger et al., "Marker Rescue etc.", J. Virol. 48(2); 1983, 419-428.
KG	Esposito, J. J. and F. A. Murphy (1989) Infectious recombinant vectored virus vaccines, In: Vaccine Biotechnology 33, (ed. Bittle, J. L. and F. A. Murphy), Academic Press, p. 235.
KH	Fenner (1958) Virology 5, 502-529.
KI	Fenner (1959) Virology 8, 499-507.
KJ	Fenner, et al., (1987), In: Veterinary Virology, Chapter 21, Academic Press, pp. 403-404.
KK	Geigenmuller-Gnirke et al., (1991) Proc. Natl. Acad. Sci., vol. 88, pp. 3253-3257.
KL	Joklik et al., (1988) Vaccine, vol. 6, pp. 123-128.
KM	Joklik et al., (1990) In: Interferons in Virology, eds. Fields et al., pp. 383-410.
KN	Joklik, Bacteriological Reviews 30 (1966) 33-66.
KO	Kantor, J., K. Irvine, S. Abrams, P. Snoy, R. Olsen, J. Greiner, H. Kaufman, D. Eggensperger, and J. Schlom. Cnacer Res 52, 24 (1992).
KP	Kaplan et al., (1988) Mol. Cell. Biol., vol. 8, pp. 2435-2441.
KQ	Karacostas et al., (1989) Proc. Natl. Acad. Sci., vol. 86, pp. 8964-8968.
KR	Karupiah et al., (1990) J. Exp. Med., vol. 172, pp. 1495-1503.
KS	Karupiah et al., (1992) Scand. J. Immunol., vol. 36, pp. 99-105.
KT	Kato, S., M. Takahashi, S. Kameyama and J. Kamahora, Biken's Journal 2, 353-363 (1959).
KU	Katz et al., C.A. 89 #39241s (1978) of J. Antimicrob. Chemother. 1978 4(2): 159-162, Genetic Recombination Between Temperature Sensitive Mutant and IBT Resistant Mutant of Vaccinia Virus.
KV	Kaufman et al., (1989) Mol. Cell. Biol., vol. 9, pp. 946-958.
KW	Kaufman, B. M., Summers, P. L., Dubois, D. R., and Eckels, K. H., Am. J Trop. Med. Hyg. 36, 427-434 (1987).
KX	Keegan and Collett, (1986) J. Virology, vol. 58, pp. 263-270.
KY	Kensil et al., (1991) JAVMA, vol. 199, pp. 1402-1405.
KZ	Kieff, E., and Liebowitz, D., In Virology, Second Edition, eds. B. N. Fields, D. M. Knipe et al., (Raven Press, Ch. 67, 1889-1920 (1990).
LA	Kieny et al., (1984) Nature, vol. 312, pp. 163-166.
LB	Killington, R. A., J. Yeo, R. W. Honess, D. H. Watson, B. E. Duncan, I. W. Halliburton, and J. Mumford, J. gen. Virol. 37, 297-310 (1977).
LC	Kimura-kuroda and Yasui, (1988) K. Immunol., vol. 141, pp. 3606-3610.
LD	Kingsbury et al., (1978) Intervirology, vol. 10, pp. 137-152.
LE	Kingsbury et al., (1990) In: Virology, 2.sup.nd Edition, eds. Fields et al., pp. 1075-1089.
LF	Kitson et al. (1991) J. Virol. 65, 3068-3075.
LG	Klasse et al., (1988) Proc. Natl. Acad. Sci., vol. 85, pp. 5225-5229.

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LI	Klickstein et al., (1987) Preparation of Insert DNA from Messenger RNA, Current Protocols in Molecular Biology, eds. Ausubel et al., pp. 5.5.1-5.5.10.
LJ	Knapp, B. et al. 1989. Molecular & Biochemical Parasitol., vol. 32, pp. 73-84.
LK	Knauf, V. C., and Nester, E. W., Plasmid 8, 45-54 (1982).
LL	Kodama et al., (1967) J. Immunol., vol. 100, pp. 194-200.
LM	Kodama et al., (1989) J. Virol., vol. 63, pp. 4709-4714.
LN	Konishi et al., (1991) Virology, vol. 185, pp. 401-410.
LO	Kotwal and Moss (1988a) Nature, vol. 335, pp. 176-178.
LP	Kotwal and Moss, (1988b) Virology, vol. 167, pp. 524-537.
LQ	Kotwal and Moss, (1989b) J. Virol., vol. 63, pp. 600-606.
LR	Kotwal et al., (1989a) Virology, vol. 171, pp. 579-587.
LS	Kotwal et al., (1990) Science, vol. 250, pp. 827-830.
LT	Koup et al., (1989) Blood, vol. 73, pp. 1909-1919.
LU	Kriegler et al., (1988) Cell, vol. 53, pp. 45-53.
LV	Kunkel et al., (1987) Method in Enzym., vol. 154, pp. 367-382.
LW	Kunkel, (1985) Proc. Natl. Acad. Sci., vol. 82, pp. 488-492.
LX	Kurata K., J. Vet. Med. Sci. 33, 85-87 (in Japanese) (1980).
LY	Kuroda et al., (1986) EMBO, vol. 5, pp. 1359-1365.
LZ	Kuwert E. K., Barsenbach C., Werner J., et al., In Cell Culture Rabies Vaccines and their Protection Effect in Man, eds. Kuwert/Wiktor/Koprowski (International Green Cross-Geneva) pp. 160-167 (1981).
MA	Laemmli, (1970) Nature, vol. 227, pp. 680-685.
MB	Lai and Pogo, (1989) Virus Res., vol. 12, pp. 239-250.
MC	Lai et al., "Attenuated Deletion Mutants of Vaccinia Virus Lacking the Vaccinia Growth Factor are Defective in Replication in vivo," Microbial Pathogenesis, vol. 6, No. 3, pp. 219-226 (1989).
MD	Lake and Cooper, (1980) J. Gen. Virol., vol. 48, pp. 135-147.
ME	Lamb and Crawford, (1986) Mol. Cell. Biol., vol. 6, pp. 1379-1385.
MF	Lane et al., (1969) New Eng. J. Med., vol. 281, pp. 1201-1208.
MG	Laprevotte et al., (1984) J. Virol., vol. 50, pp. 884-894.
MH	Lathe et al., (1987) Nature, vol. 326, pp. 878-880.
MI	Le et al., (1988) Virus Genes, vol. 1, pp. 333-350.
MJ	Lecocq, J. P., M. P. Kieny, Y. Lemoine, R. Drillien, T. Wiktor, H. Koprowski and R. Lathe, In World's Debt to Pasteur, eds. Koprowski, H. and Plotkin, S. A., (Alan R. Liss, New York), 259-271 (1985).
MK	Levis et al., (1990) J. Virol., vol. 64, pp. 1726-1733.
ML	Li et al., (1989) J. Molec. Biochem. Parasitol, vol. 33, pp. 13-26.

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MO	Lipman, D.J., and Pearson, W.R., Science 227, 1435-1441 (1985).
MP	Liu, Y-N. C., A. Klaus, B. Kari, M. F. Stinski, J. Exhkardt, and R. C. Gehrz, J. Virol. 65, 1644-1648 (1991).
MQ	Lopez et al., (1992) Immunology Today, vol. 13, pp. 495-500.
MR	Lukacs et al., (1985) J. Virol., vol. 53, pp. 166-172.
MS	Lutz et al., (1980) Cancer Res., vol. 40, pp. 3642-3651.
MT	Macfarlan et al., (1986) J. Mol. Immunol., vol. 23, pp. 733-741.
MU	Mackett et al Proc Natl Acad Sci USA vol. 79 pp. 7415-7419 (1982).
MV	Mackett, M. and J. R. Arrand, EMBO J. 4, 3229-3235 (1985).
MW	Makoff et al., (1989) N.F. Bio/Technology, vol. 7, pp. 1043-1046.
MX	Mandecki, (1986) Proc. Natl. Acad. Sci., vol. 83, pp. 7177-7182.
MY	Marsden et al., (1978) J. Virol., vol. 28, pp. 624-642.
MZ	Marshall et al., (1992) J. Infect. Dis., vol. 165, pp. 381-384.
NA	Mason et al., (1987b) Virol., vol. 180, pp. 294-305.
NB	Mason, P. W., McAda, P. C., Mason, T. L., and Fournier, M. J., Virol. 161, 262-267 (1987B).
NC	Massung et al, Virology 180:355-364, 1991.
ND	Mathes et al., (1978) Nature, vol. 274, pp. 687-691.
NE	Matthews, (1982b) Intervirology, vol. 17, pp. 42-44.
NF	Mayr et al., (1975) Infection, vol. 3, pp. 6-14.
NG	Mazzara et al., (1987) Vaccines, vol. 87, pp. 419-424.
NH	McAda et al., (1987) Virology, vol. 158, pp. 348-360.
NI	McClain, (1965) Aust. J. Exp. Biol. Med. Sci., vol. 43, pp. 31-44.
NJ	McGeoch et al., (1987) J. Gen. Virol., vol. 68, pp. 19-38.
NK	McGinnes et al., (1986) Virus Research, vol. 5, pp. 343-356.
NL	McLaughlin-Taylor et al., (1988) J. Gen. Virol., vol. 69, pp. 1731-1734.
NM	McMichael, A.J., Gotch, F.M., Noble, G.R., and Beare, P.A.S., New Engl. J. Med. 309, 13-17 (1983)
NN	Meignier et al., (1987) J. Infect. Dis., vol. 155, pp. 921-930.
NO	Melnick, Virology, Second Edition ed. B. N. Fields, (Raven Press, N.Y.), Chapter 21, 549-605, (1990).
NP	Merz et al., (1980) J. Expr. Med., vol. 151, pp. 275-288.
NQ	Messing, (1983) vol. 1, eds. Wu, Grossman, and Moldave, (Academic Press NY) pp. 20-78.
NR	Mettenleiter et al., (1986) Virology, vol. 152, pp. 66-75.

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NT	Meulemans et al., (1988) Avian Patol., vol. 17, pp. 821-827.
NU	Michel et al., (1988) Eur. J. Immunology, vol. 18, pp. 1917.
NV	Milich et al., (1985) Science, vol. 228, pp. 1195-1199.
NW	Milich et al., (1986) J. Immun. vol. 137, pp. 315-322.
NX	Milich et al., (1987a) J. Immun., vol. 138, pp. 4457-4465.
NY	Milich et al., (1987b) Nature, vol. 329, pp. 547-549.
NZ	Milich et al., (1988) In: Viral Hepatitis and Liver Disease, pp. 645-649.
OA	Miller, G., In: Virology, Second Edition, eds. Fields, B.N. et al. (Raven Press, Ltd., New York) pp. 1921-1958 (1990).
OB	Nagai et al., (1980) Microbiol. Immunol., vol. 24, pp. 173-177.
OC	Nagai, Y., H. D. Klenk, and R. Rott, Virology 72, 494-508 (1976).
OD	Nakano et al. (1982) Proc. Natl. Acad. Sci. USA 79, 1593-1596.
OE	Nazerian, K., E.A. Stephens, J.M. Sharma, L.F. Lee, M. Gailitis and R.L. Witter, Avian Diseases 21, 69-76 (1977).
OF	Nettleton, P.F., and J.M. Sharpe, Vet. Rec. 107, 379 (1980).
OG	Neurath et al., (1984) Science, vol. 224, pp. 392-395.
OH	Neurath et al., (1986) Cell, vol. 46, pp. 429-436.
OI	Neurath et al., (1987) Microbiological Sciences, vol. 4, pp. 45-51.
OJ	Neurath et al., (1988) Adv. Vir. Res., vol. 34, pp. 65-142.
OK	Neurath et al., (1989) Mol. Immun., vol. 26, pp. 53-62.
OL	Nixon et al., (1988) Nature, vol. 326, pp. 484-487.
OM	Norrby and Gollmar, (1975) Infect. and Immun., vol. 11, pp. 231-239.
ON	Norrby and Oxman, (1990) In: Fields Virology, 2.sup.nd Edition, eds. Fields and Knipe, pp. 1013-1044.
OP	Norrby et al., (1982) Archives of Virology, vol. 71, pp. 1-11.
OQ	Nunberg et al., (1984a) Proc. Natl. Acad. Sci., vol. 81, pp. 3675-3679.
OR	Nunberg et al., (1984b) J. Virol., vol. 49, pp. 629-632.
OS	Oakes and Rosemond-Hornbeck, Infect. Immun., vol. 21, pp. 489-495.
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OU	Ogawa et al., (1990) Vaccine, vol. 8, pp. 486-490.
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OY	Ou, J-H, and W. J. Rutter, J. Virol. 61, 782-786 (1987).
OZ	Oya A. Jpn. J. Med. Sci. Biol., Suppl. 20, 26-30 (1967).
PA	Paez et al., (1984) Virology, vol. 134, pp. 12-28.
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PC	Palumbo, G. J., D. J. Pickup, T. N. Fredrickson, L. J. McIntyre and R. M. L. Buller, Virology 172, 262-273 (1989).
PD	Pande, H., K. Campo, B. tanamuchi, and J. A. Zaia, Virology 182, 220-228 (1991).
PE	Panicali et al. (1981) J. Virol. 37, 1000-1010.
PF	Panicali et al. (1982) Proc. Natl. Acad. Sci. USA 79, 4927-4931.
PG	Panicali et al. (1983) Proc. Natl. Acad. Sci. 80, 5364-5368.
PH	Paoletti E et al. "Construction of Live Vaccine Using Genetically Engineered Poxviruses: Biological Activity of Vaccinia Virus Recombinants Expressing the Hepatitis B Virus Surface Antigen and the Herpes Simplex Virus Glycoprotein D" Proceedings of the National Academy of Sciences of USA, vol. 81, Jan. 1, 1984, pp. 193-197, XP000651699.
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PK	Parrish, et al., (1988) Virology, vol. 166, pp. 293-307.
PL	Patel and Pickup, (1987) EMBO, vol. 6, pp. 3787-3794.
PM	Patel et al., (1988) Proc. Natl. Acad. Sci., vol. 85, pp. 9431-9435.
PN	Pathak et al., (1988) Mol. Cell. Biol., vol. 8, pp. 993-995.
PO	Pattnaik et al. (1990) J. Virol. 64, 2948-2957.
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PQ	Pedersen and Ott. Feline Practice, Evaluation of a Commercial Feline Leukemia Virus Vaccine for Immunogenicity, vol. 15. No. 6, 7-20, Nov.-Dec. 1985.
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PS	Pennica et al., (1991) Virology, vol. 134, pp. 477-482.
PT	Perkus et al (1985) Science 229, 981-984.
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PV	Perkus et al. 1991. Virology vol. 180 pp. 406-410.
PW	Perkus et al., (1990) Virology, vol. 179, pp. 276-286.
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	QF	Pontisso et al., (1989) J. Virol., vol. 63, pp. 1981-1988.
	QG	Post et al (1981) Cell 25 227-233.
	QH	Pouwels, P.H., et al. Cloning Vectors (1985), p. VIII-A-A-i-9.
	QI	Powell and Watson, (1975) Gen. Virol., vol. 29, pp. 167-178.
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	QW	Rickinson et al., (1984) Cell. Immunol., vol. 87, pp. 646-658.
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	QY	Riviere Y., Tanneau-Salvadori, F., Regnault, A., Lopez, O., Sansonetti, P., Guy, B., Kiely, M.-P., Fournel, J.-J., and Montagnier, L., J. Virol. 63, 2270-2277 (1989).
	QZ	Robbins et al., (1984) J. Mol. Appl Genet., vol. 2, pp. 485-496.
	RA	Robbins et al., (1986a) J. Virol., vol. 58, pp. 339-347.
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	RC	Rodriguez, D. et al. (1989) Proc. Natl. Acad. Sci USA 86:1287-1291.
	RD	Roizman, B. and Sears, A., In Virology, eds. Fields, B. and Knipe, D., (Raven Press. Ltd) pp. 1795-1841 (1990).
	RE	Rojko et al., (1982) Nature, vol. 298, pp. 385-388.
	RF	Ronen et al., (1992) Nucleic Acid Research, vol. 20, pp. 3435-3441.
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	RY	Scheid and Choppin, (1974) Virology, vol. 57, pp. 475-490.
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	SC	Schlesinger et al., (1986) J. Virol., vol. 60, pp. 1153-1155.
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TB	Smith et al. (1983) Nature 302, 490-495.
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TE	Southern, E. M., J. Mol. Biol. 98, 503-517 (1975).
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TI	Stahl and Murray, (1989) Proc. Natl. Acad. Sci., vol. 86, pp. 6283-6287.
TJ	Stanberry et al., (1985) J. Virol., vol. 55, pp. 322-328.
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TN	Stuve, L.L., S. Brown-Shimer, C. Pachl, R. Najarian, D. Dina, and R.L. Burke, J. Virol. 61, 326-335 (1987).
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TQ	Tartaglia, J. et al. (906) in: Immunochemistry of Viruses, eds. M.H.V. van Regenmortel and A.R. Newirth, Elsevier Science Publishers B.V. pp. 125-151.
TR	Tartaglia, J., J. Taylor, W. I. Cox, J.-C. Audonnet, M.E. Perkus, A. Radaelli, C. de Giuli Morghen, B. Meignier, M. Riviere, K. Weinhold & E. Paoletti, In Aids Research Reviews, W. Koff, F. Wong-Staal & R.C. Kennedy, Eds., vol. 3, Marcel Dekker, NY (In press) (1993a).
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TV	Taylor et al., (1990) J. Virol., vol. 64, pp. 1441-1450.
TW	Taylor et al., (1991a) J. Gen. Virol., vol. 72, pp. 125-130.
TX	Third Povirus-Iridovirus Workshop, Sep. 15-18, 1980, Workshop Program.
TY	Thomson, G. R., Spooner, P. R., and Powell, D. G, Vet. Res. 100, 465-468 (1977).
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UA	Toyoda et al., (1987) Virology, vol. 158, pp. 242-247.
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WR	Declaration of Dr. Moyer dated December 16, 1992
WS	Declaration of Dr. Condit dated January 7, 1993
WT	Declaration of Dr. Wittek dated January 6, 1993
WU	Declaration of Dr. Drillen dated January 6, 1993
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WY	Wittek, R. "organization and Expression of the Poxvirus Genome, Experientia 38 (1982) pp285-410
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XF	Weir, J. Proc. Natl Acad Sci vol 79, pp 1210-1214, 1982
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EXAMINER

DATE CONSIDERED

\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.